

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A reflective pavement marker comprising:

a shell having at least one side wall having a reflective portion, wherein said shell forms an interior cavity, said reflective portion having an inner surface partially defining said cavity, said shell formed of a polymer selected from the group consisting of polyacrylate and polycarbonate, said polymer having a tensile strength of greater than ~~9,000~~ 10,000 pounds per square inch and a ~~ratio of tensile strength to flexural modulus of between 0.021-0.050:1~~ greater than 450,000 pounds per square inch;

a reflective coating covering said inner surface of said reflective portion;

a bonding coating covering at least said reflective coating; and

a filler material disposed within the interior cavity of said shell.
2. (Canceled)
3. (Original) A reflective pavement marker as set forth in claim 1 wherein said polymer has an optical transmittance greater than 85%.
4. (Original) A reflective pavement marker as set forth in claim 1 wherein said polymer is a polyacrylate.
5. (Previously Presented) A reflective pavement marker as set forth in claim 1 wherein said polymer comprises methyl methacrylate.

6. (Previously Presented) A reflective pavement marker as set forth in claim 1 wherein said polymer is a copolymer of ethyl acrylate and methyl methacrylate.

7. (Previously Presented) A reflective pavement marker as set forth in claim 1 wherein said shell includes a top wall and side wall that are integral and formed as one piece.

8. (Original) A reflective pavement marker as set forth in claim 1 wherein said reflective portion includes a plurality of integrally formed cube-shaped members arranged in a grid pattern.

9. (Original) A reflective pavement marker as set forth in claim 1 wherein said reflective coating is a metal material.

10. (Original) A reflective pavement marker as set forth in claim 1 wherein said bonding coating is a bonding primer.

11. (Original) A reflective pavement marker as set forth in claim 10 wherein said bonding primer is an acrylic latex primer.

12. (Original) A reflective pavement marker as set forth in claim 10 wherein said bonding primer is a water based primer.

13. (Currently Amended) A reflective pavement marker comprising:

a shell having at least one side wall having a reflective portion, wherein said shell defines an interior cavity, and said reflective portion and said shell are integral and formed as one piece, said shell formed of a polymer selected from the group consisting of polyacrylate and polycarbonate, said polymer having a tensile strength of greater than ~~9,000~~ 10,000 pounds per square inch and a ~~ratio of tensile strength to flexural modulus of between 0.026-0.050:1~~ greater than 450,000 pounds per square inch;

wherein said reflective portion includes a plurality of integrally formed cube-shaped members arranged in a grid pattern on an inner surface;

a reflective coating covering said inner surface of said reflective portion, wherein said reflective coating is a metal material;

a bonding coating covering said reflective coating to prevent separation of said reflective coating from said reflective portion, wherein said bonding coating is a bonding primer; and

a filler material disposed within said cavity of said shell.

14. (Canceled)

15. (Original) A reflective pavement marker as set forth in claim 13 wherein said polymer has an optical transmittance greater than 85%.

16. (Original) A reflective pavement marker as set forth in claim 13 wherein said polymer is a polyacrylate.

17. (Previously Presented) A reflective pavement marker as set forth in claim 13 wherein said polymer comprises methyl methacrylate.

18. (Previously Presented) A reflective pavement marker as set forth in claim 13 wherein said polymer is a copolymer of ethyl acrylate and methyl methacrylate.

19. (Original) A reflective pavement marker as set forth in claim 13 wherein said bonding primer is an acrylic latex primer.

20. (Currently Amended) A method of forming a reflective pavement marker, said method comprising the steps of:

forming a shell having at least one reflective portion with an inner surface wherein the shell forms an interior cavity, said shell formed of a polymer selected from the group consisting of polyacrylate and polycarbonate, said polymer having a tensile strength of greater than 9,000 10,000 pounds per square inch and a ~~ratio of tensile strength to~~ flexural modulus of ~~between 0.021-0.050:1~~ greater than 450,000 pounds per square inch;

coating said inner surface with a metal material;

covering at least said metal material with a bonding compound; and

filling the cavity of the shell with a filler material.

21. (Canceled)

22. (Currently Amended) A method of forming a reflective pavement marker as set forth in claim 20 wherein said polymer has an optical transmittance greater than 85%.

23. (Currently Amended) A method of forming a reflective pavement marker as set forth in claim 20 wherein said polymer is a polyacrylate.

24. (Currently Amended) A method of forming a reflective pavement marker as set forth in claim 20 wherein said polymer comprises methyl methacrylate.

25. (Currently Amended) A method of forming a reflective pavement marker as set forth in claim 20 wherein said polymer is a copolymer of ethyl acrylate and methyl methacrylate.